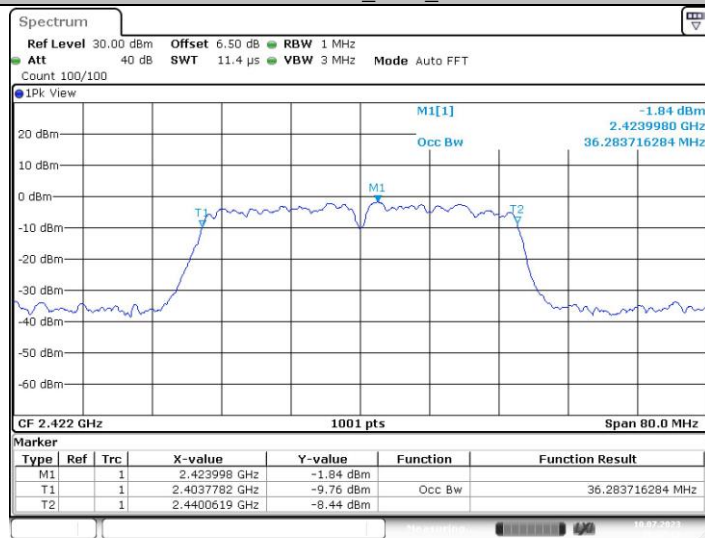
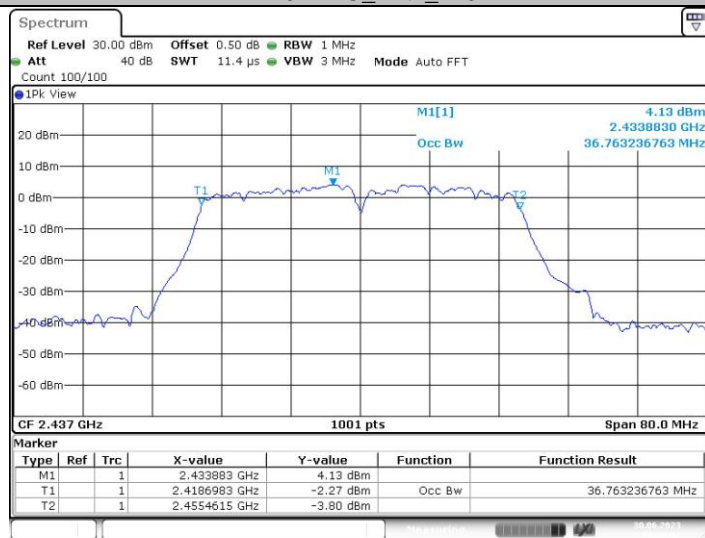


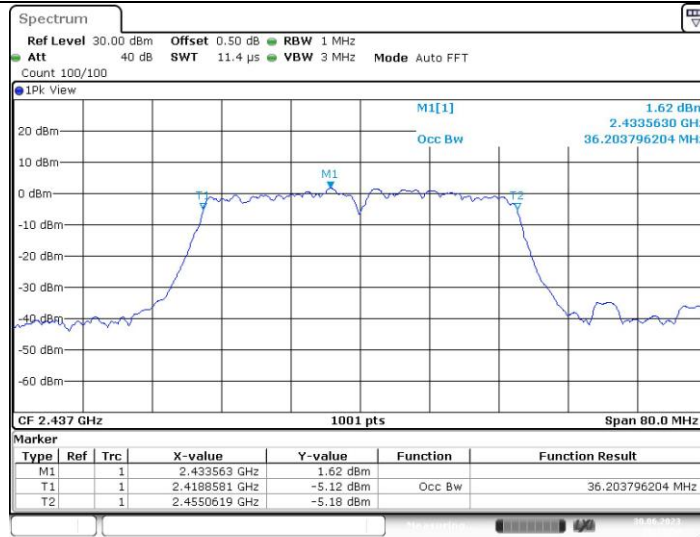
11N40MIMO_Ant2_2422



11N40MIMO_Ant1_2437

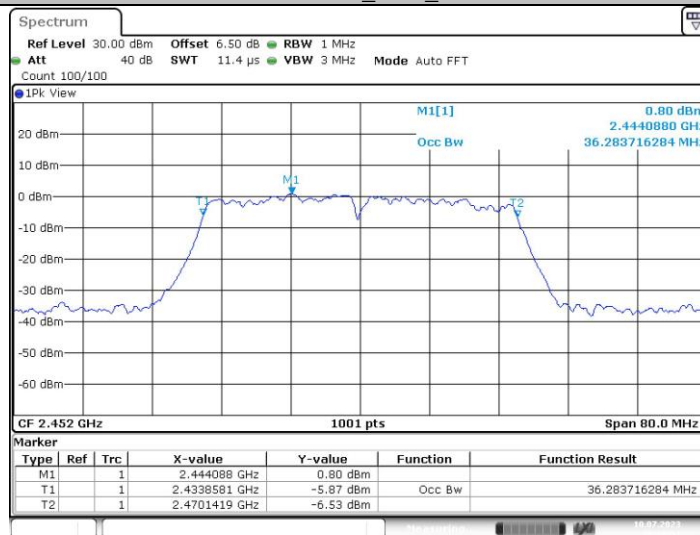


11N40MIMO_Ant2_2437



Date: 30.JUN.2023 16:21:54

11N40MIMO_Ant1_2452



Date: 10.JUL.2023 16:29:50

11N40MIMO_Ant2_2452

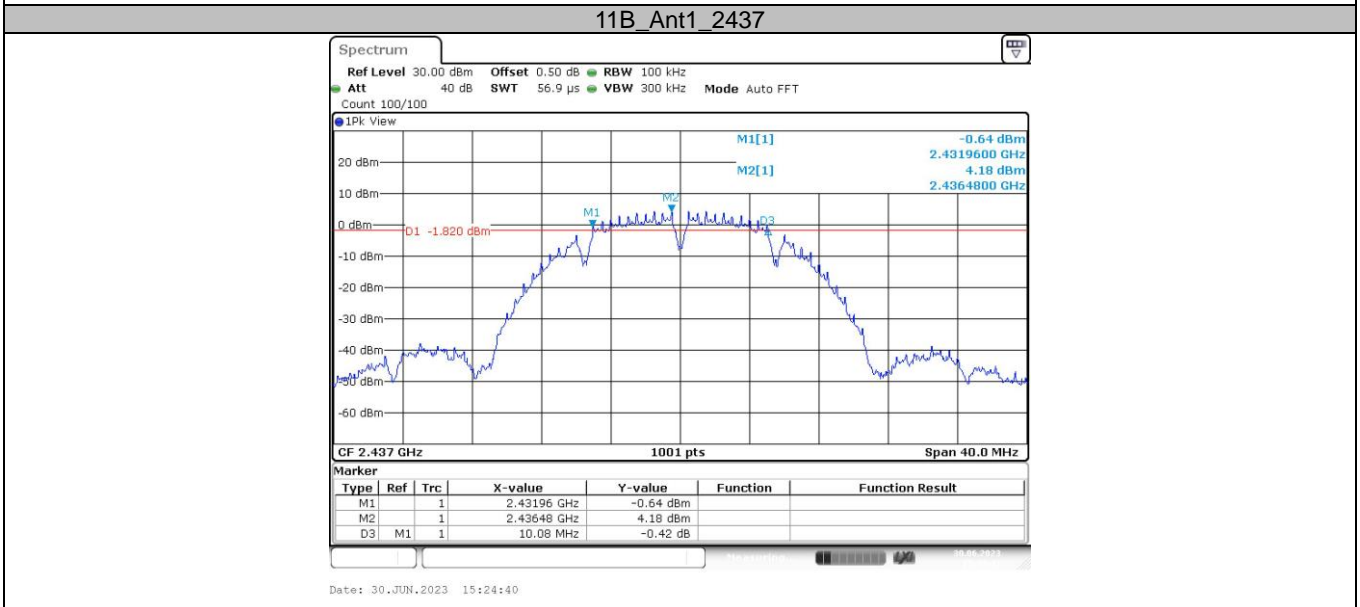
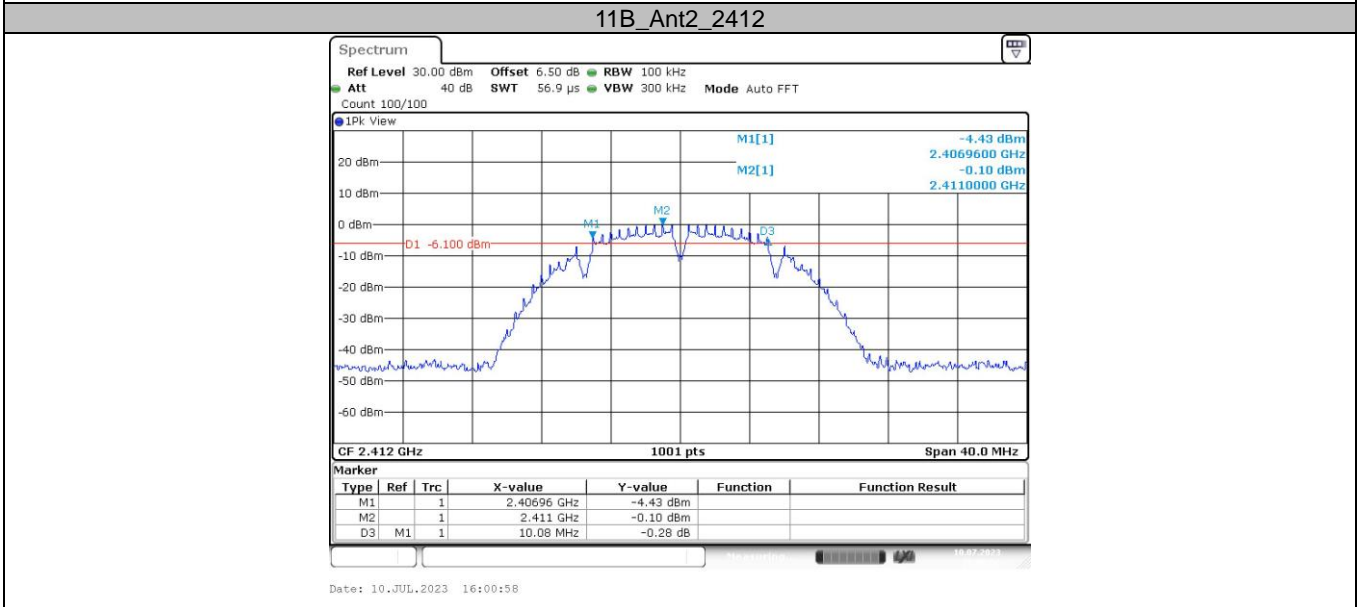
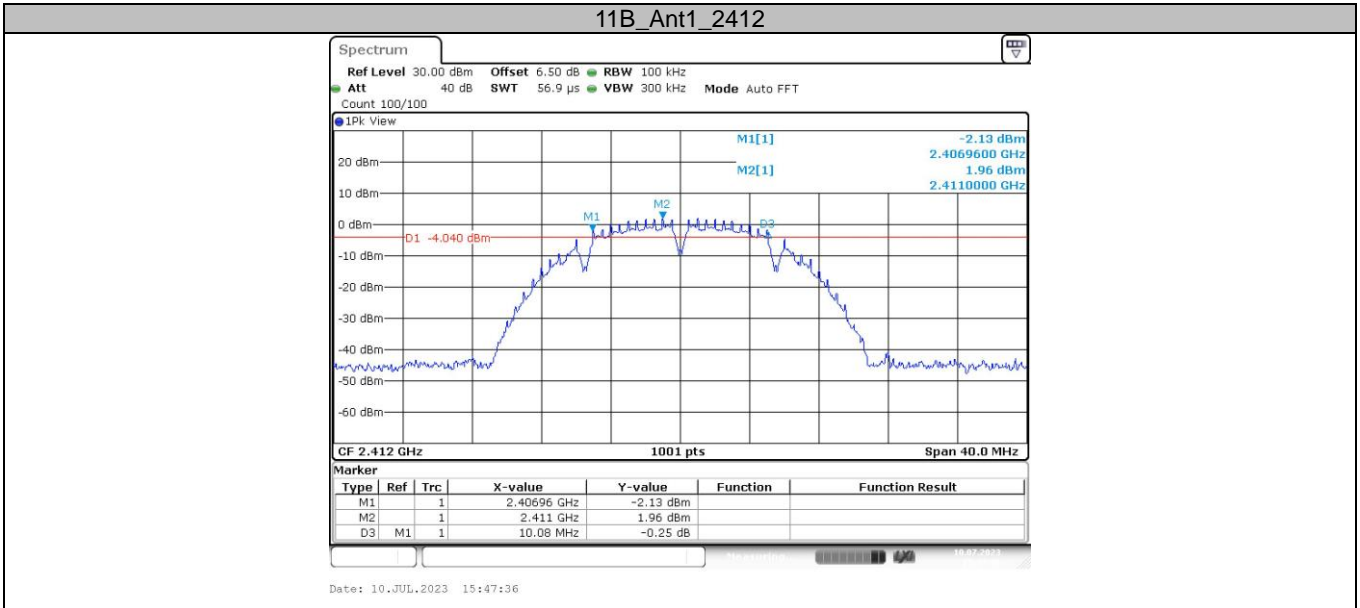


Date: 10.JUL.2023 16:31:49

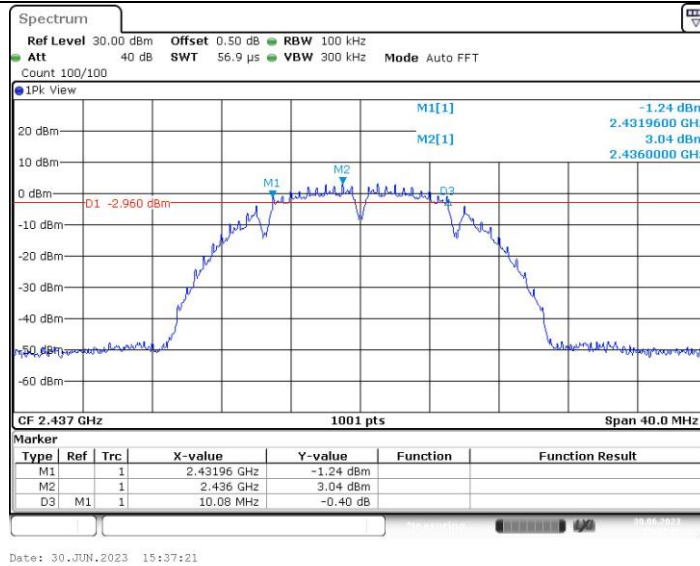




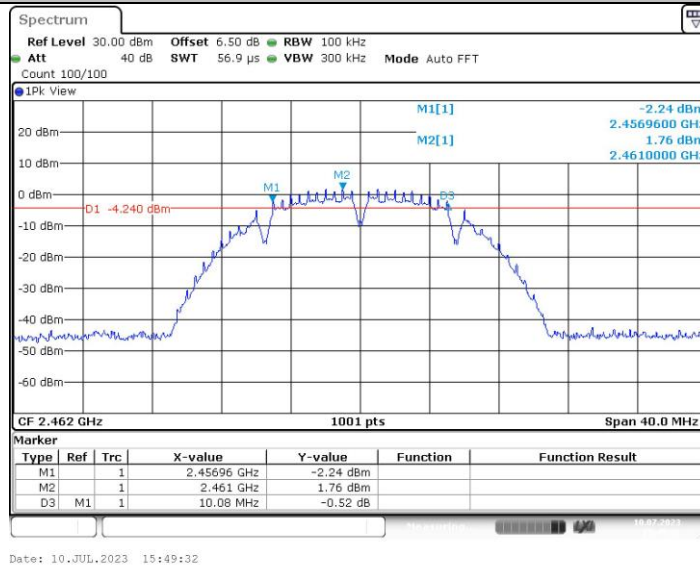
DTS Bandwidth:



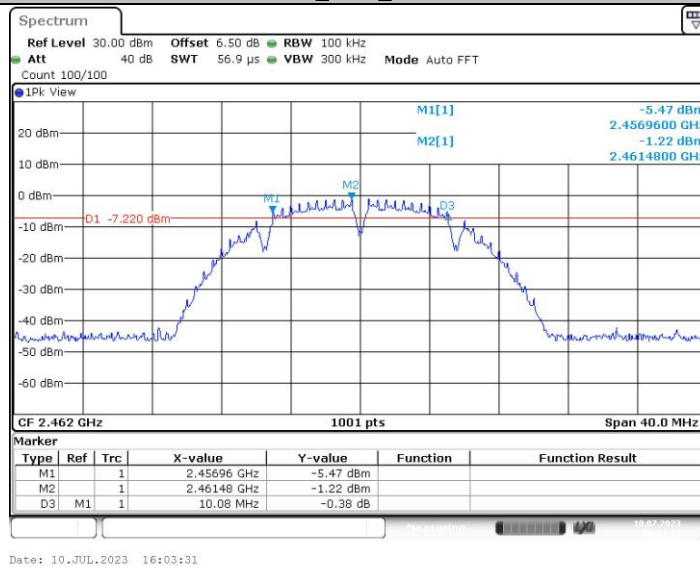
11B_Ant2_2437



11B_Ant1_2462

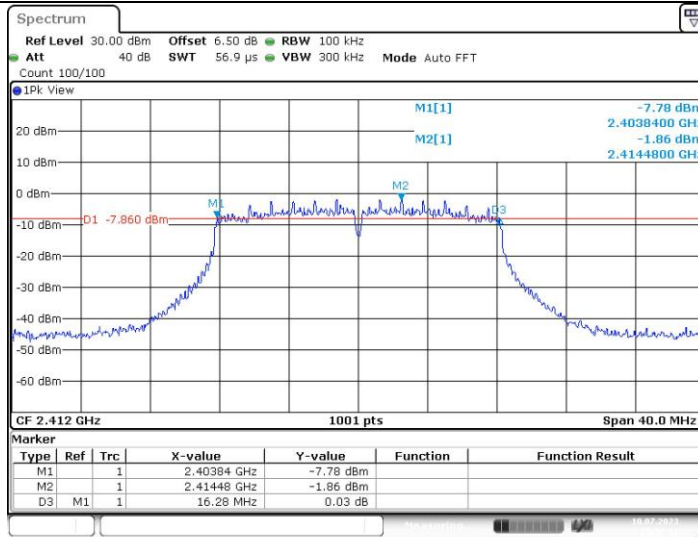


11B_Ant2_2462



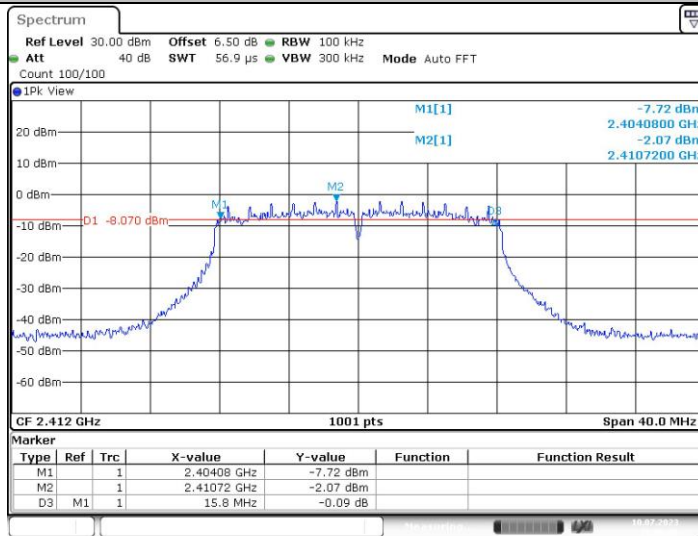
11G_Ant1_2412





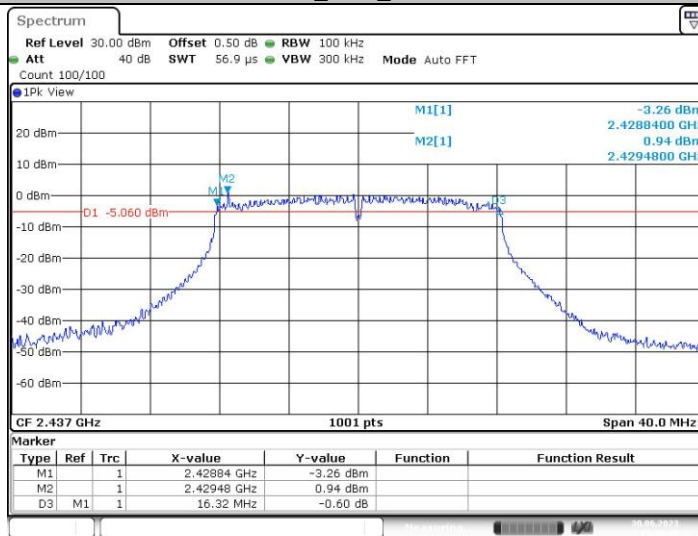
Date: 10.JUL.2023 15:52:11

11G_Ant2_2412



Date: 10.JUL.2023 16:06:36

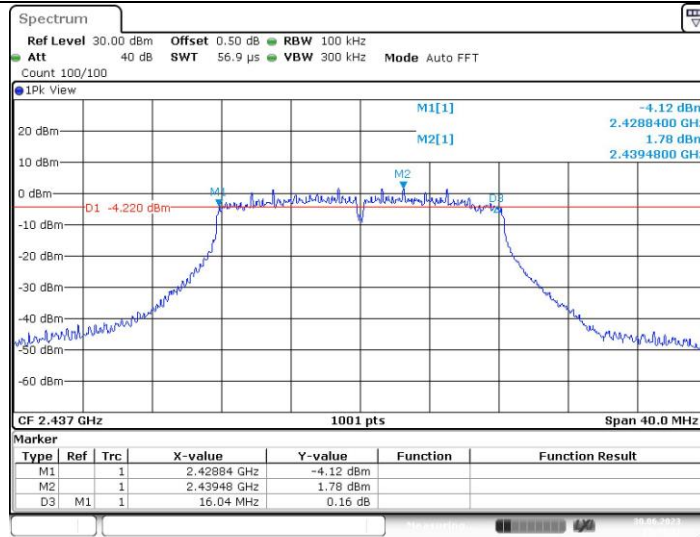
11G_Ant1_2437



Date: 30.JUN.2023 15:30:48

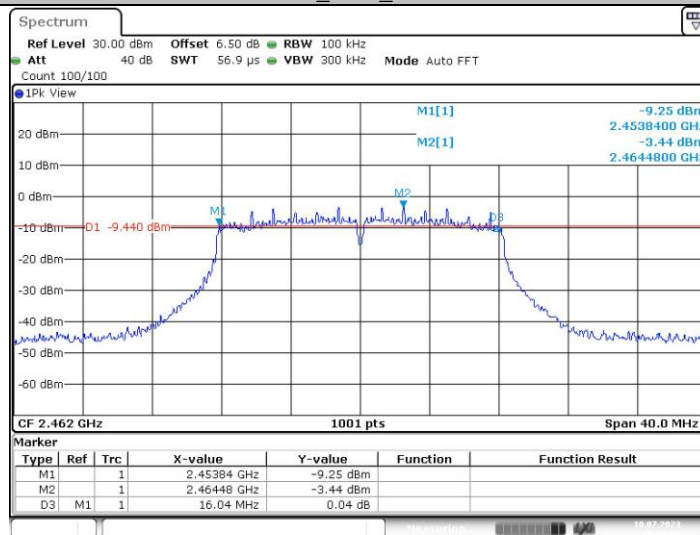
11G_Ant2_2437





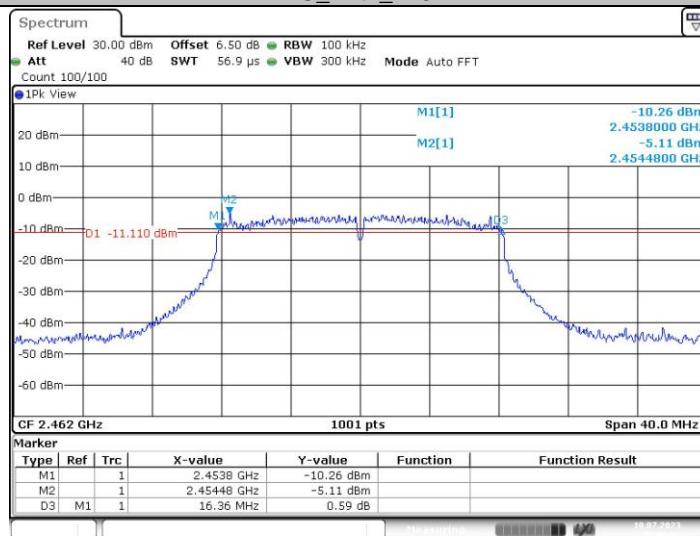
Date: 30.JUN.2023 15:43:30

11G_Ant1_2462



Date: 10.JUL.2023 15:56:28

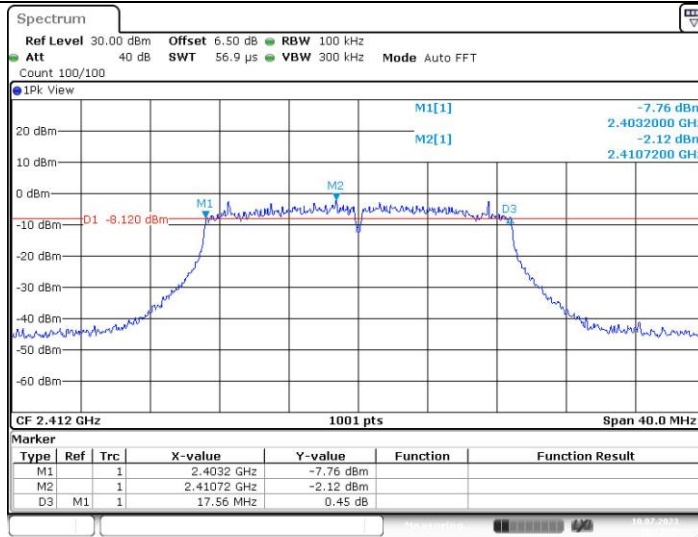
11G_Ant2_2462



Date: 10.JUL.2023 16:08:52

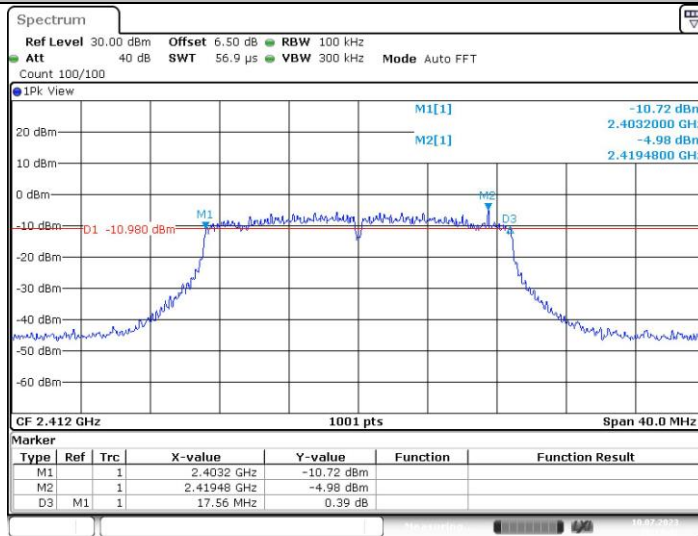
11N20MIMO_Ant1_2412





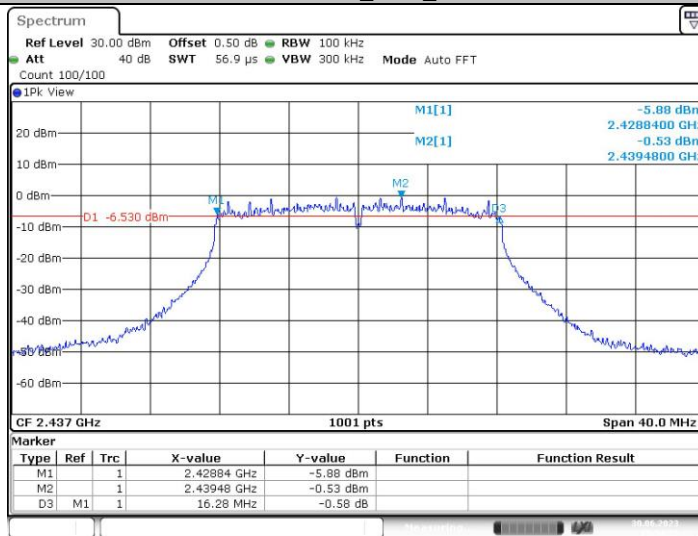
Date: 10.JUL.2023 16:11:45

11N20MIMO_Ant2_2412



Date: 10.JUL.2023 16:13:41

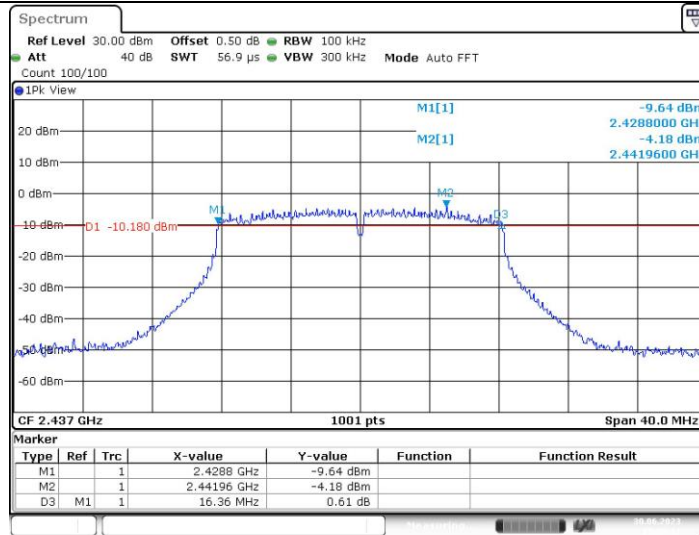
11N20MIMO_Ant1_2437



Date: 30.JUN.2023 15:54:15

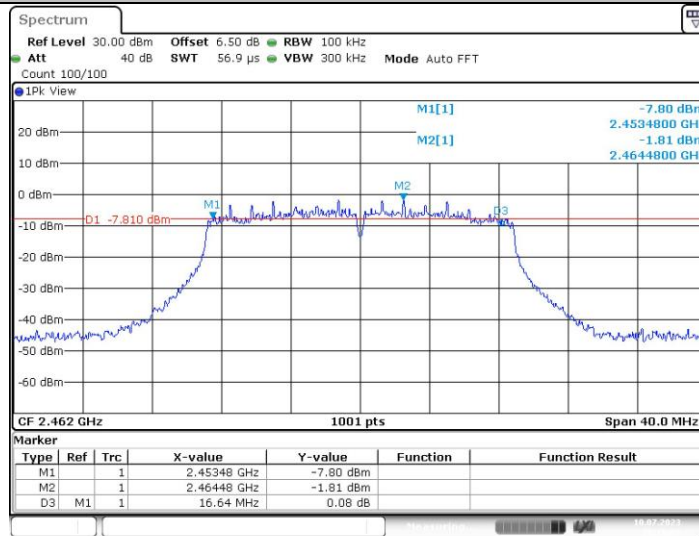
11N20MIMO_Ant2_2437





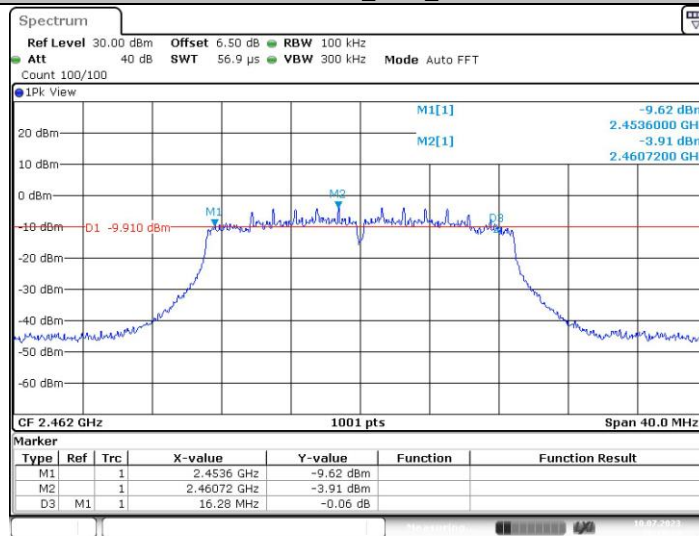
Date: 30.JUN.2023 15:56:10

11N20MIMO_Ant1_2462



Date: 10.JUL.2023 16:16:29

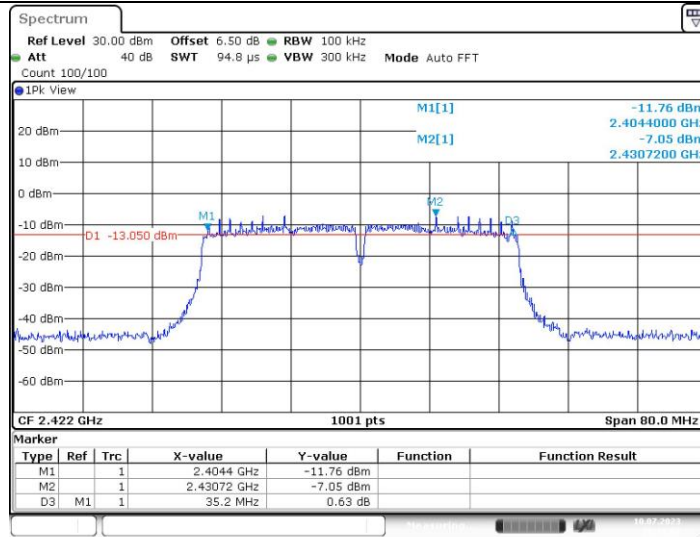
11N20MIMO_Ant2_2462



Date: 10.JUL.2023 16:18:33

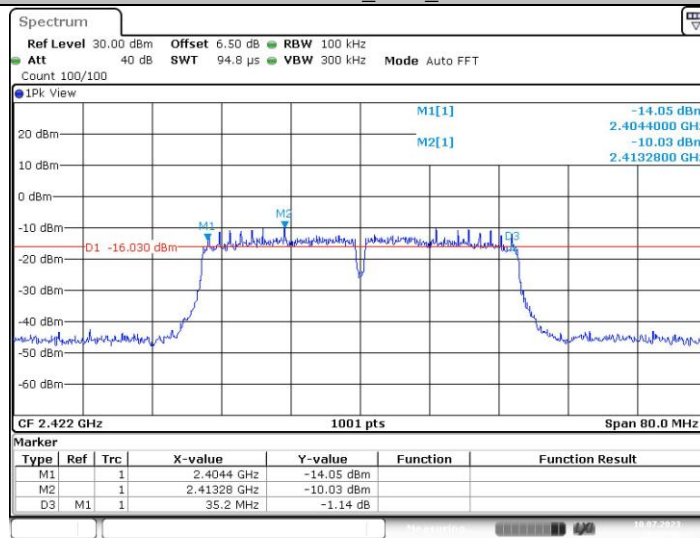
11N40MIMO_Ant1_2422





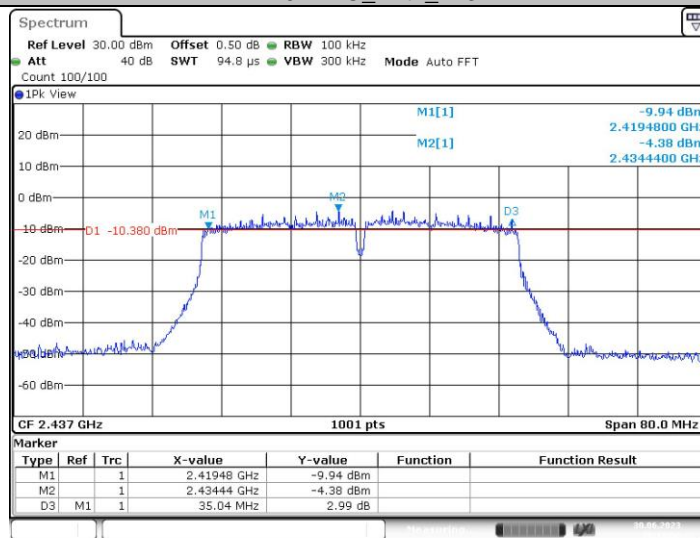
Date: 10.JUL.2023 16:21:06

11N40MIMO_Ant2_2422



Date: 10.JUL.2023 16:26:59

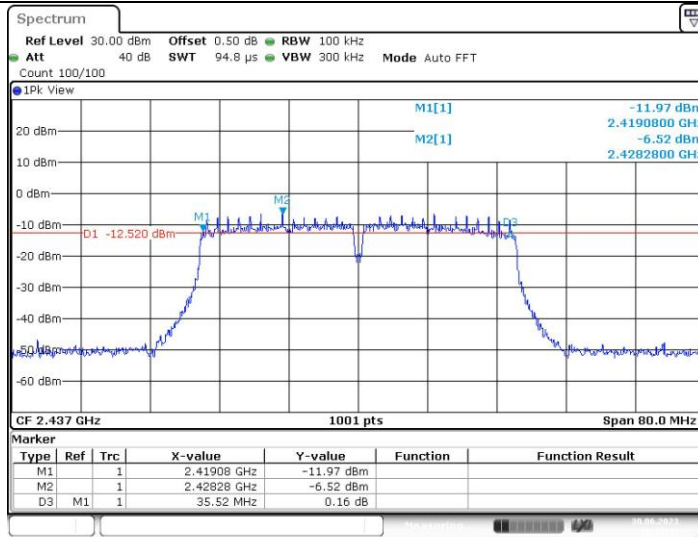
11N40MIMO_Ant1_2437



Date: 30.JUN.2023 16:19:49

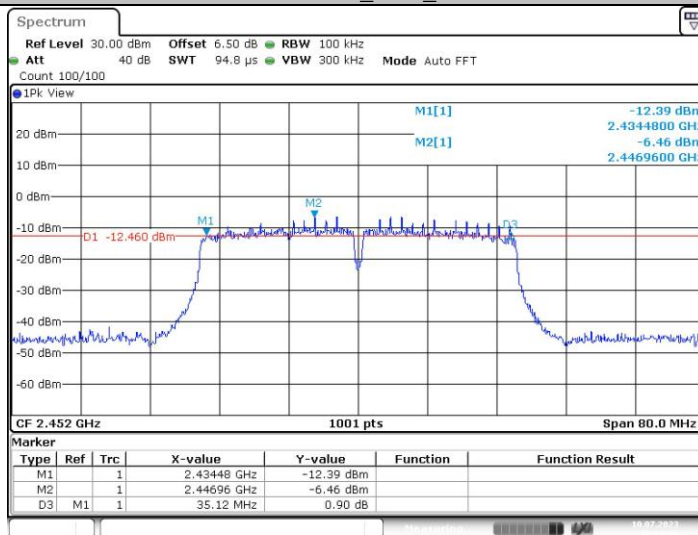
11N40MIMO_Ant2_2437





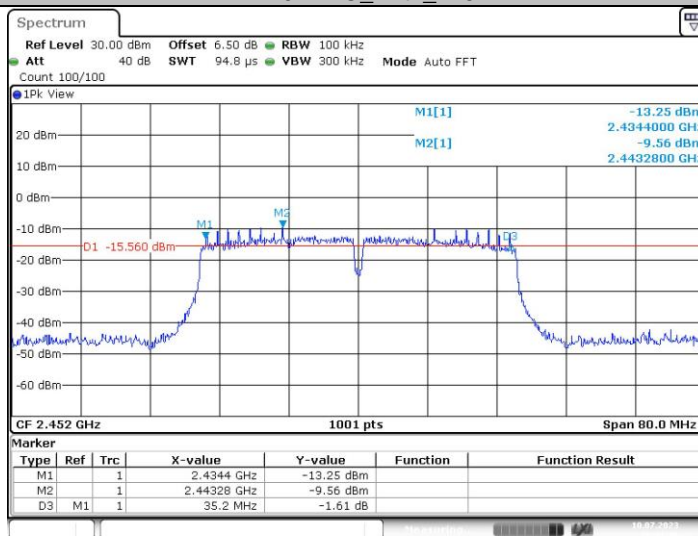
Date: 30.JUN.2023 16:21:43

11N40MIMO_Ant1_2452



Date: 10.JUL.2023 16:29:38

11N40MIMO_Ant2_2452



Date: 10.JUL.2023 16:31:36





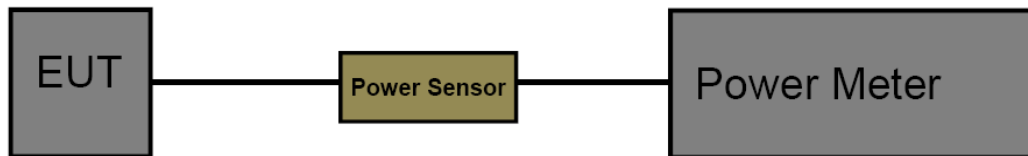
3.6. Output Power

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3)

Section	Test Item	Limit	Frequency Range (MHz)
FCC CFR 47 Part15.247 (b)(3)	Maximum Conducted Output Power	1 Watt or 30dBm	2400~2483.5

Test Configuration



Test Procedure

1. The maximum conducted output power may be measured using a broadband RF power meter.
2. Power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor.
3. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.
4. Record the measurement data.

Test Mode

Please refer to the clause 2.4.

**Test Result**

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	9.56	≤30	PASS
	Ant2	2412	7.52	≤30	PASS
	Ant1	2437	14.03	≤30	PASS
	Ant2	2437	12.97	≤30	PASS
	Ant1	2462	9.00	≤30	PASS
	Ant2	2462	6.93	≤30	PASS
11G	Ant1	2412	7.10	≤30	PASS
	Ant2	2412	7.00	≤30	PASS
	Ant1	2437	13.97	≤30	PASS
	Ant2	2437	13.15	≤30	PASS
	Ant1	2462	5.23	≤30	PASS
	Ant2	2462	6.14	≤30	PASS
11N20MIMO	Ant1	2412	8.03	≤30	PASS
	Ant2	2412	5.42	≤30	PASS
	total	2412	9.9	≤30	PASS
	Ant1	2437	11.30	≤30	PASS
	Ant2	2437	8.76	≤30	PASS
	total	2437	13.2	≤30	PASS
	Ant1	2462	7.04	≤30	PASS
	Ant2	2462	4.95	≤30	PASS
	total	2462	9.1	≤30	PASS
11N40MIMO	Ant1	2422	5.11	≤30	PASS
	Ant2	2422	2.06	≤30	PASS
	total	2422	6.9	≤30	PASS
	Ant1	2437	10.21	≤30	PASS
	Ant2	2437	7.69	≤30	PASS
	total	2437	12.1	≤30	PASS
	Ant1	2452	5.07	≤30	PASS
	Ant2	2452	2.88	≤30	PASS
	total	2452	7.1	≤30	PASS



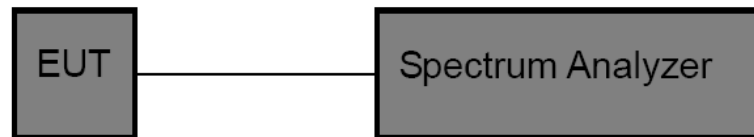
3.7. Power Spectral Density

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e)

Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	8 dBm (in any 3 kHz)	2400~2483.5

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v05r02.
3. Spectrum Setting:
 - a) Set instrument center frequency to DTS channel center frequency.
 - b) Set span to at least 1.5 times the OBW.
 - c) Set RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
 - d) Set VBW $\leq [3 \times \text{RBW}]$.
 - e) Detector = power averaging (rms) or sample detector (when rms not available).
 - f) Ensure that the number of measurement points in the sweep $\geq [2 \times \text{span} / \text{RBW}]$.
 - g) Sweep time = auto couple.
 - h) Employ trace averaging (rms) mode over a minimum of 100 traces.
 - i) Use the peak marker function to determine the maximum amplitude level.
 - j) If the measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced).

Test Mode

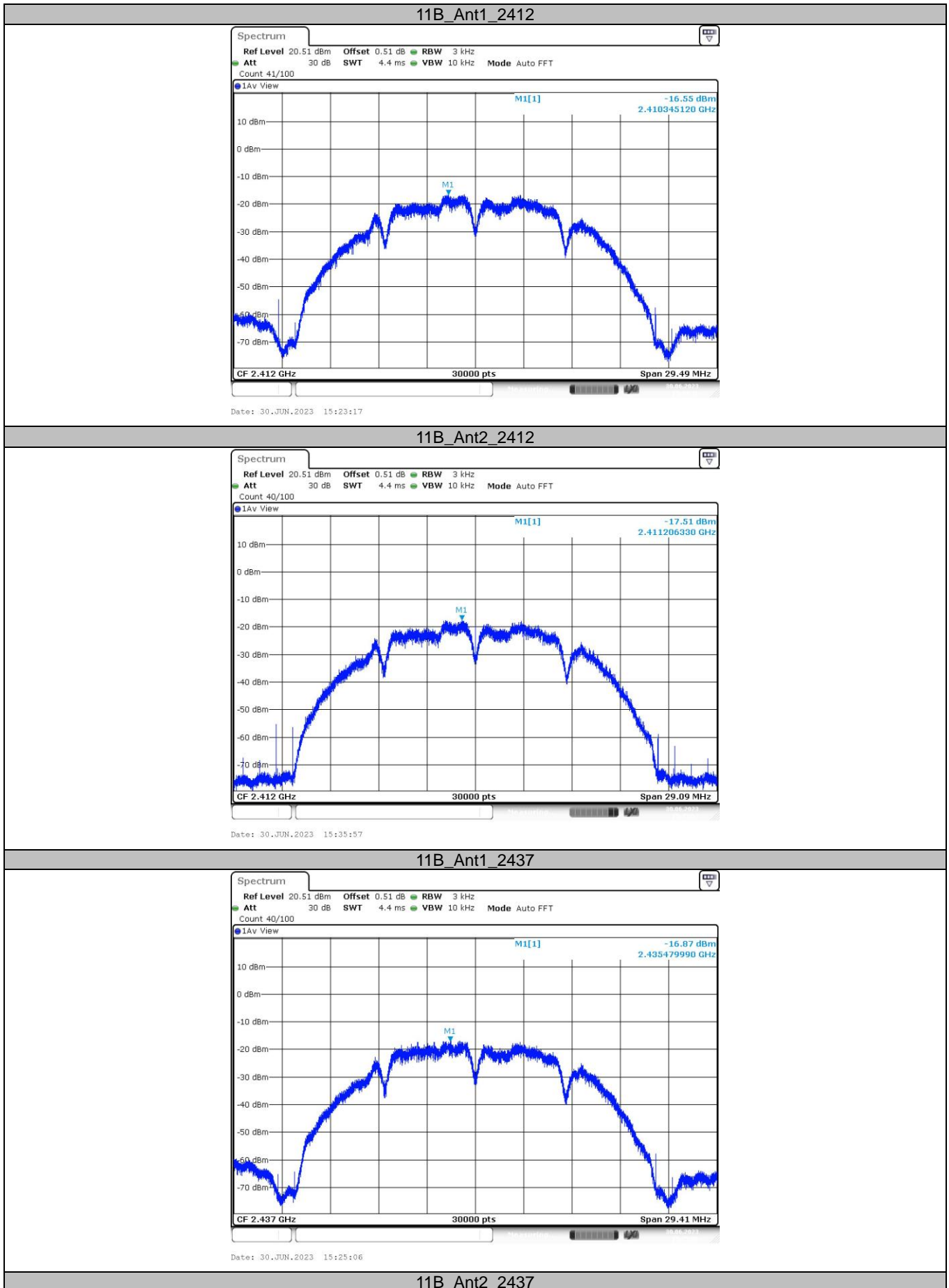
Please refer to the clause 2.4.

**Test Result**

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-21.07	≤8	PASS
	Ant2	2412	-23.69	≤8	PASS
	Ant1	2437	-16.87	≤8	PASS
	Ant2	2437	-17.2	≤8	PASS
	Ant1	2462	-22.27	≤8	PASS
	Ant2	2462	-24.42	≤8	PASS
11G	Ant1	2412	-22.73	≤8	PASS
	Ant2	2412	-23.57	≤8	PASS
	Ant1	2437	-16.31	≤8	PASS
	Ant2	2437	-15.44	≤8	PASS
	Ant1	2462	-25.64	≤8	PASS
	Ant2	2462	-23.38	≤8	PASS
11N20MIMO	Ant1	2412	-20.23	≤8	PASS
	Ant2	2412	-24.68	≤8	PASS
	total	2412	-18.90	≤8	PASS
	Ant1	2437	-18.3	≤8	PASS
	Ant2	2437	-21.42	≤8	PASS
	total	2437	-16.58	≤8	PASS
	Ant1	2462	-22.85	≤8	PASS
	Ant2	2462	-25.28	≤8	PASS
	total	2462	-20.89	≤8	PASS
11N40MIMO	Ant1	2422	-27.22	≤8	PASS
	Ant2	2422	-30.61	≤8	PASS
	total	2422	-25.58	≤8	PASS
	Ant1	2437	-20.61	≤8	PASS
	Ant2	2437	-23.5	≤8	PASS
	total	2437	-18.81	≤8	PASS
	Ant1	2452	-25.14	≤8	PASS
	Ant2	2452	-29.19	≤8	PASS
	total	2452	-23.70	≤8	PASS



Test plot as follows:

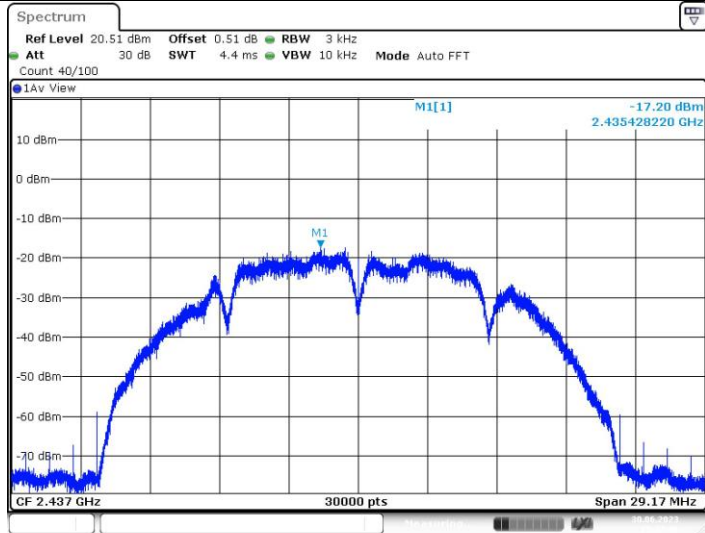


CTC Laboratories, Inc.

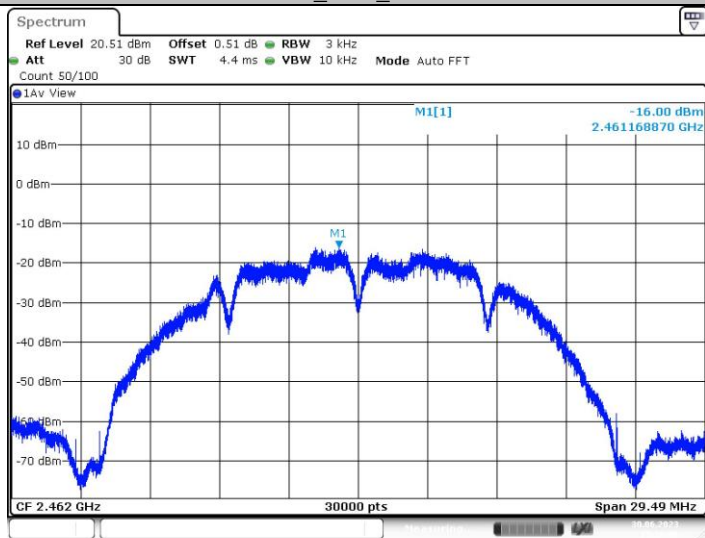
2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China
Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn



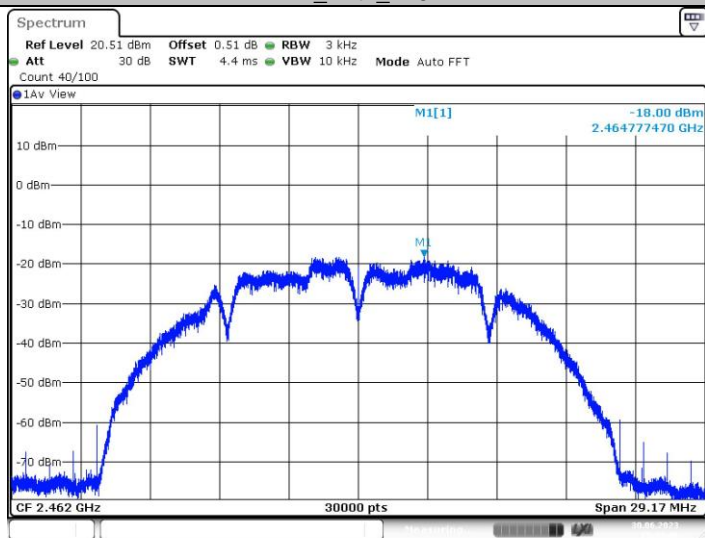
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : <http://yz.cnca.cn>



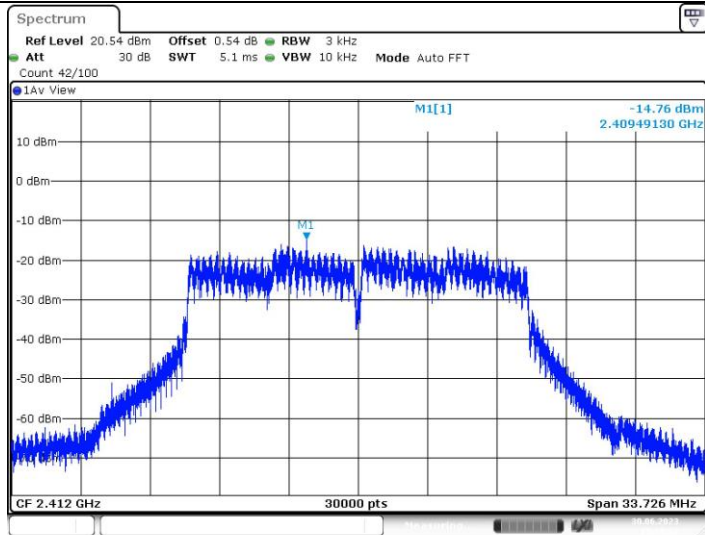
11B_Ant1_2462



11B_Ant2_2462

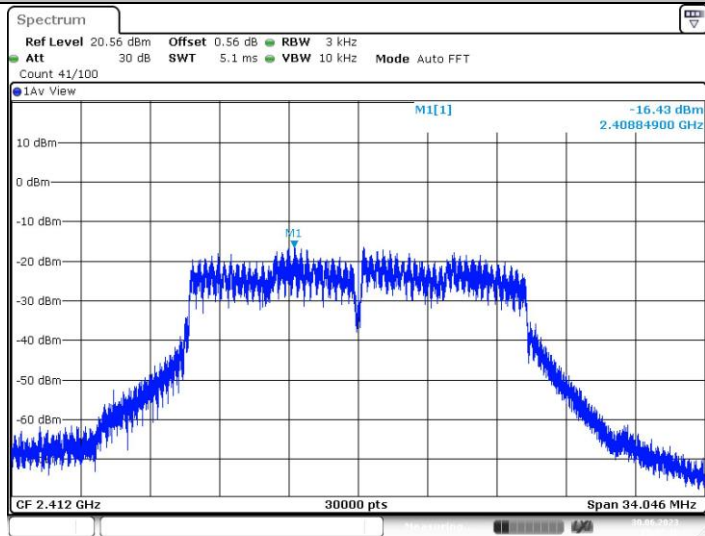


11G_Ant1_2412



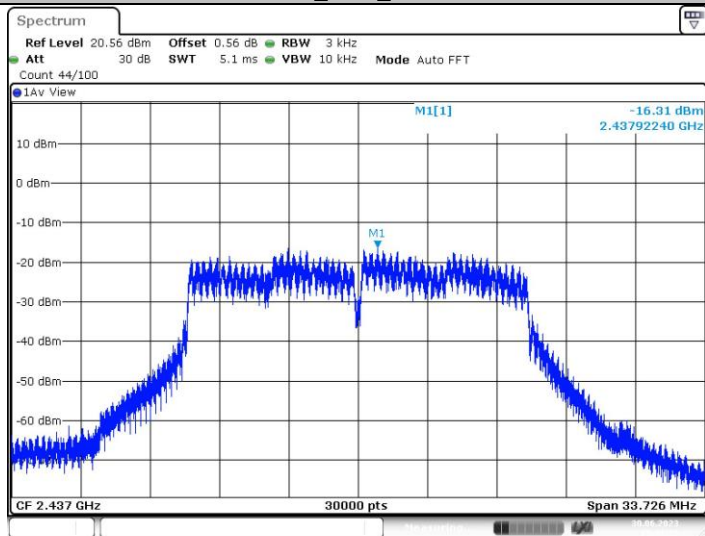
Date: 30 JUN 2023 15:29:27

11G_Ant2_2412



Date: 30 JUN 2023 15:42:11

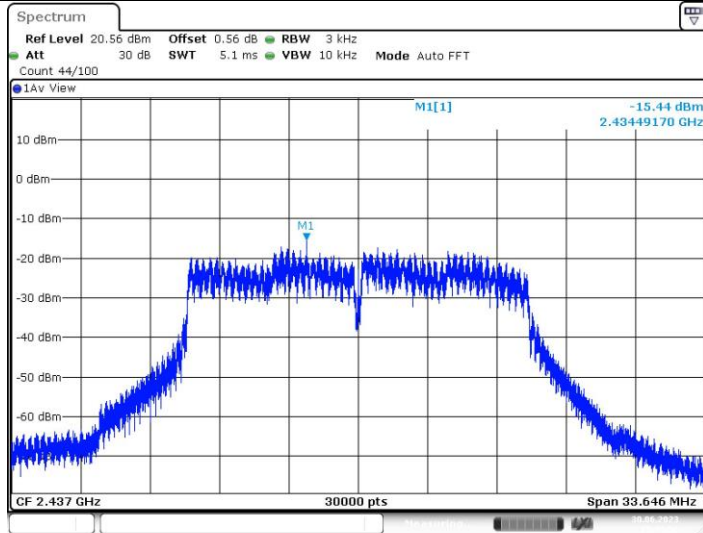
11G_Ant1_2437



Date: 30 JUN 2023 15:31:14

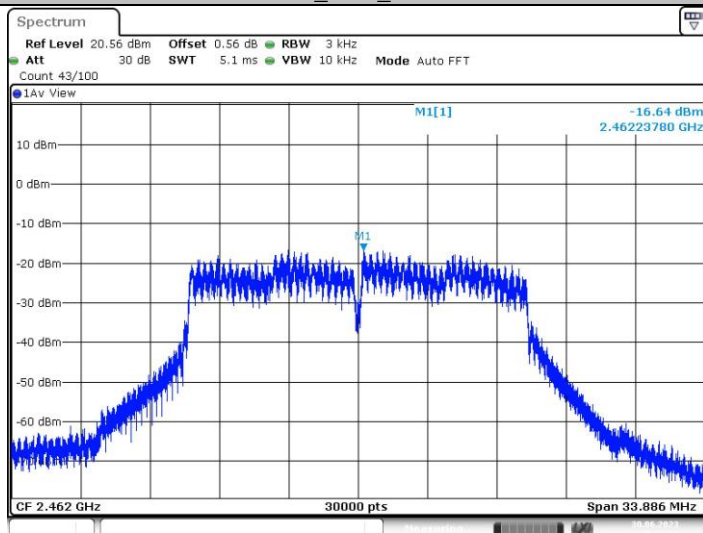
11G_Ant2_2437





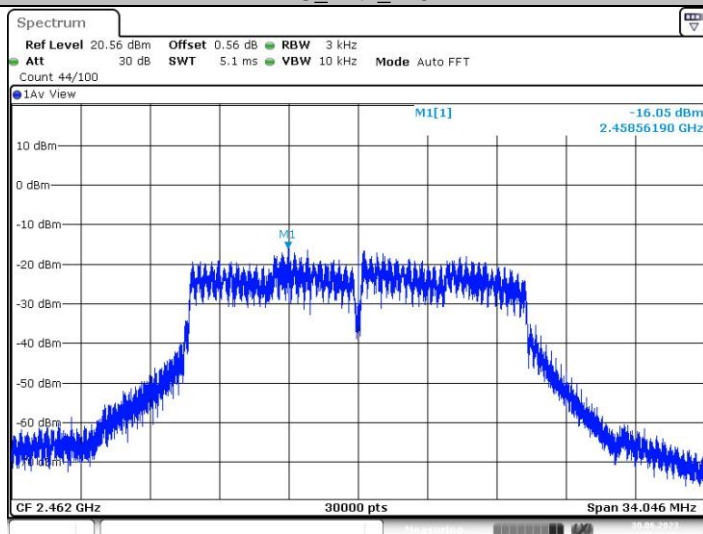
Date: 30 JUN 2023 15:43:56

11G_Ant1_2462



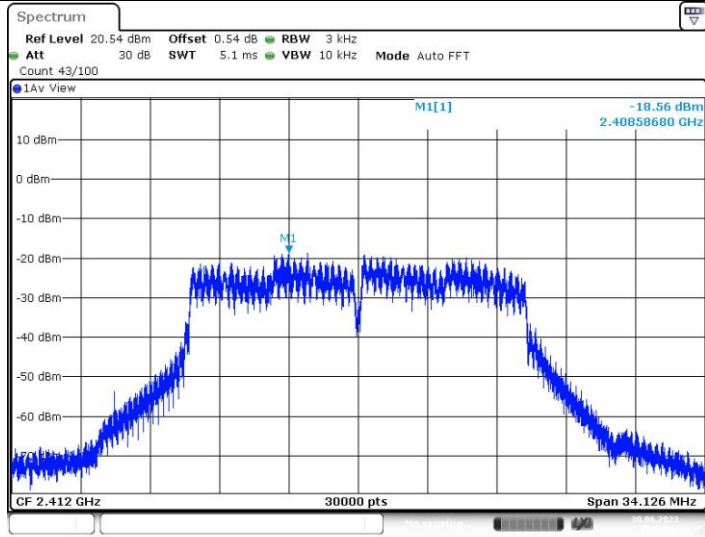
Date: 30 JUN 2023 15:32:56

11G_Ant2_2462

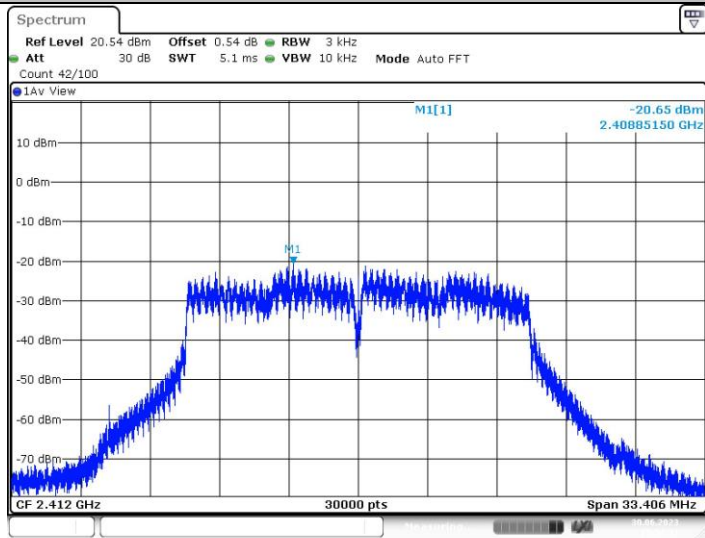


Date: 30 JUN 2023 15:46:41

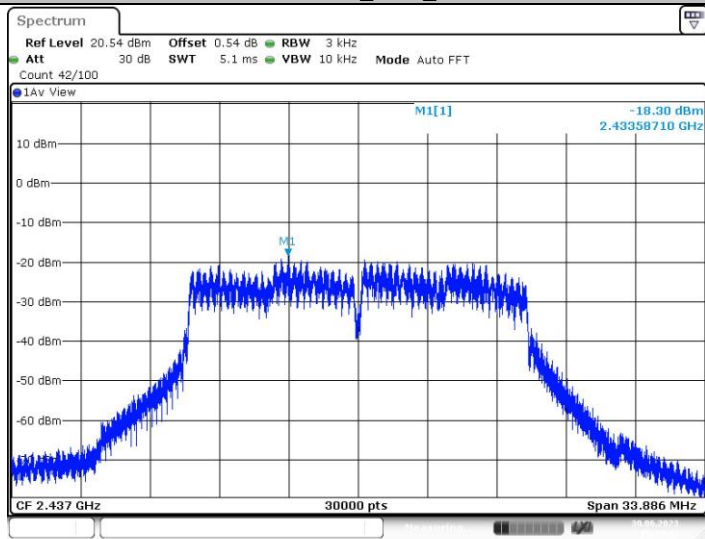
11N20MIMO_Ant1_2412



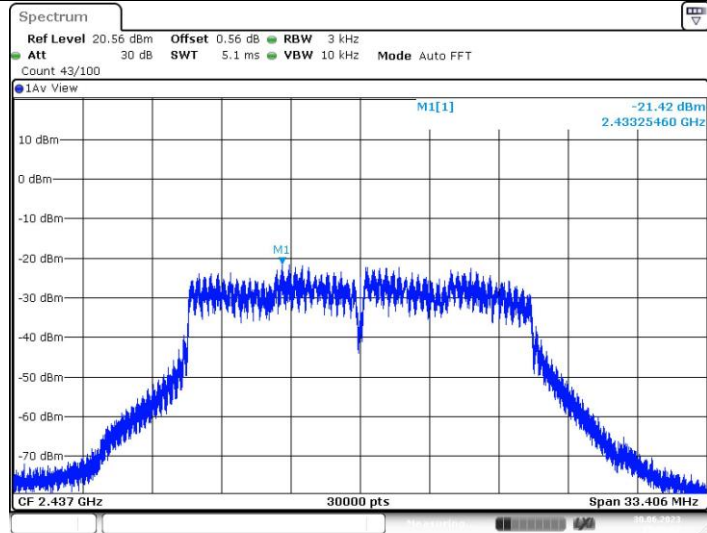
11N20MIMO_Ant2_2412



11N20MIMO_Ant1_2437

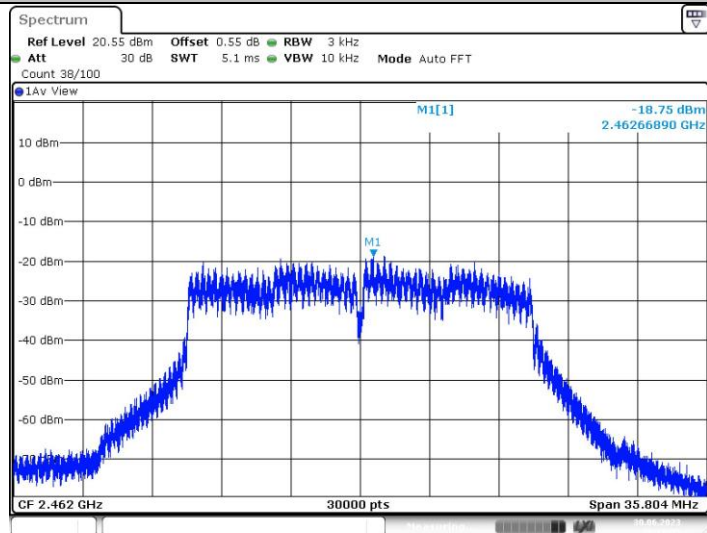


11N20MIMO_Ant2_2437



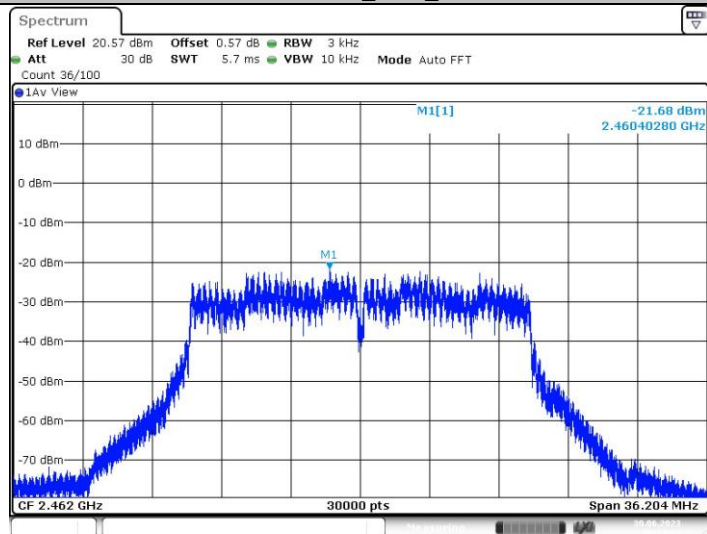
Date: 30 JUN 2023 15:56:37

11N20MIMO_Ant1_2462



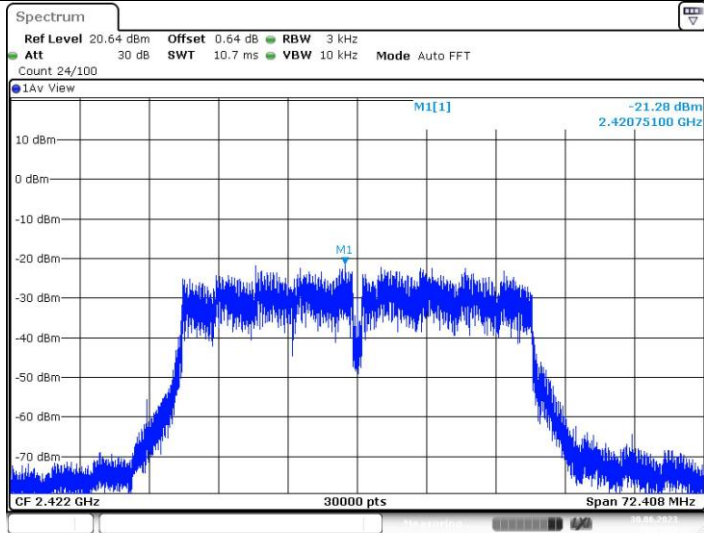
Date: 30 JUN 2023 16:10:55

11N20MIMO_Ant2_2462

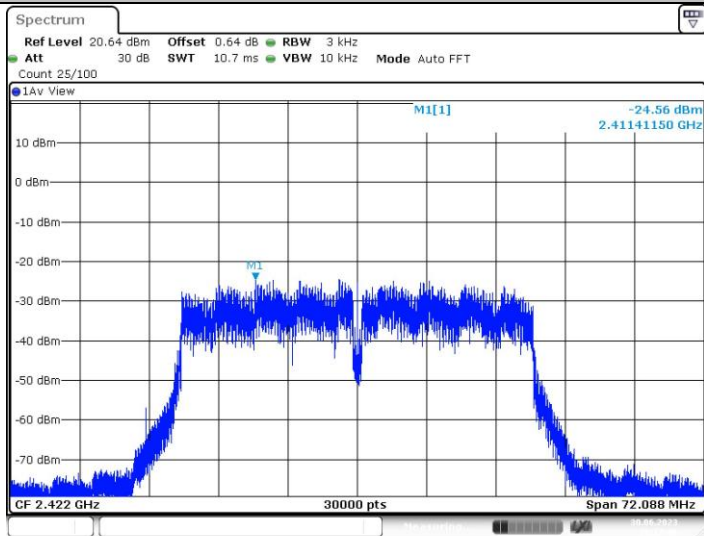


Date: 30 JUN 2023 16:13:26

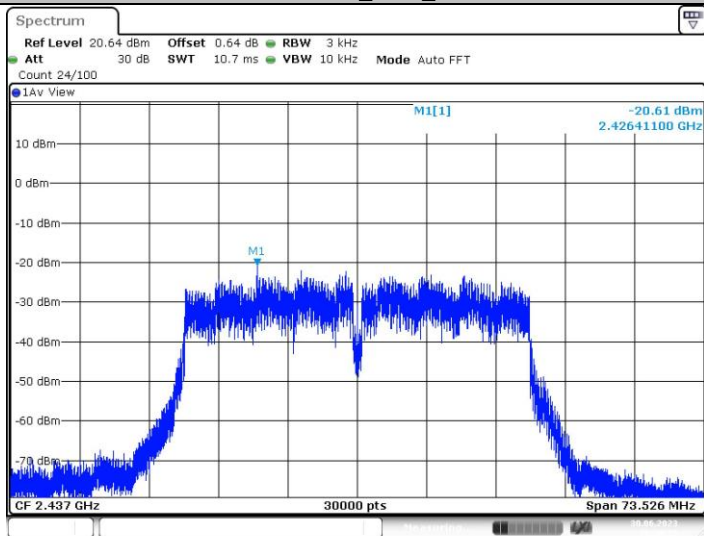
11N40MIMO_Ant1_2422



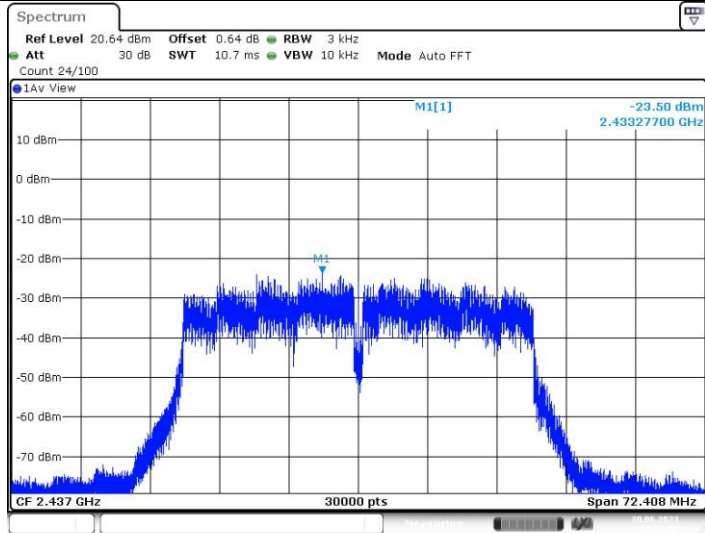
11N40MIMO_Ant2_2422



11N40MIMO_Ant1_2437

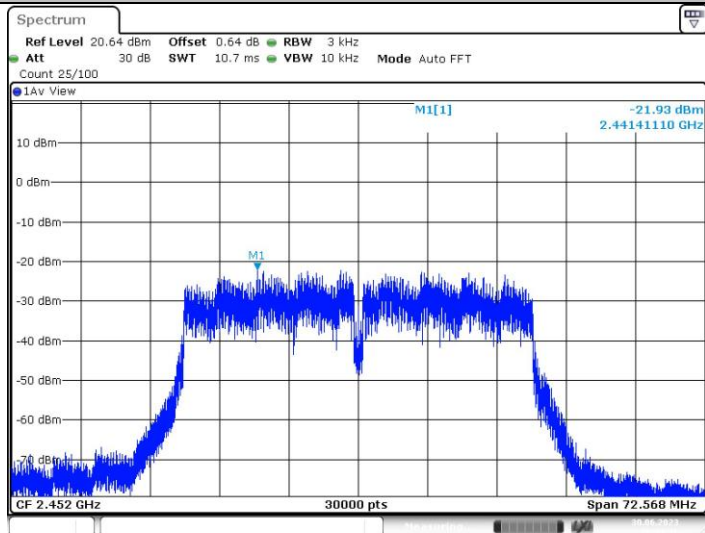


11N40MIMO_Ant2_2437



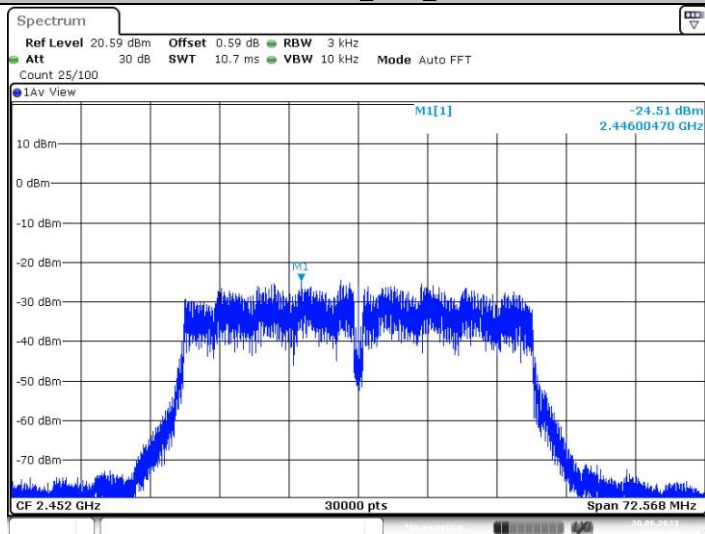
Date: 30 JUN 2023 16:22:09

11N40MIMO_Ant1_2452



Date: 30 JUN 2023 16:24:16

11N40MIMO_Ant2_2452



Date: 30 JUN 2023 16:26:08

CTC Laboratories, Inc.

2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China
Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn



For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : <http://yz.cnca.cn>

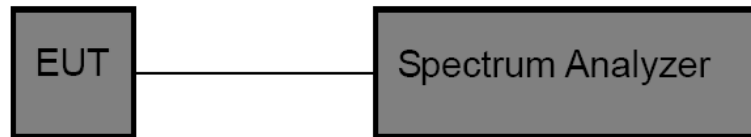


3.8. Duty Cycle

Limit

None, for report purposes only.

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v05r02.
3. Spectrum Setting:
Set analyzer center frequency to test channel center frequency.
Set the span to 0Hz.
Set the RBW to 10MHz.
Set the VBW to 10MHz.
Detector: Peak.
Sweep time: Auto.
Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

Test Mode

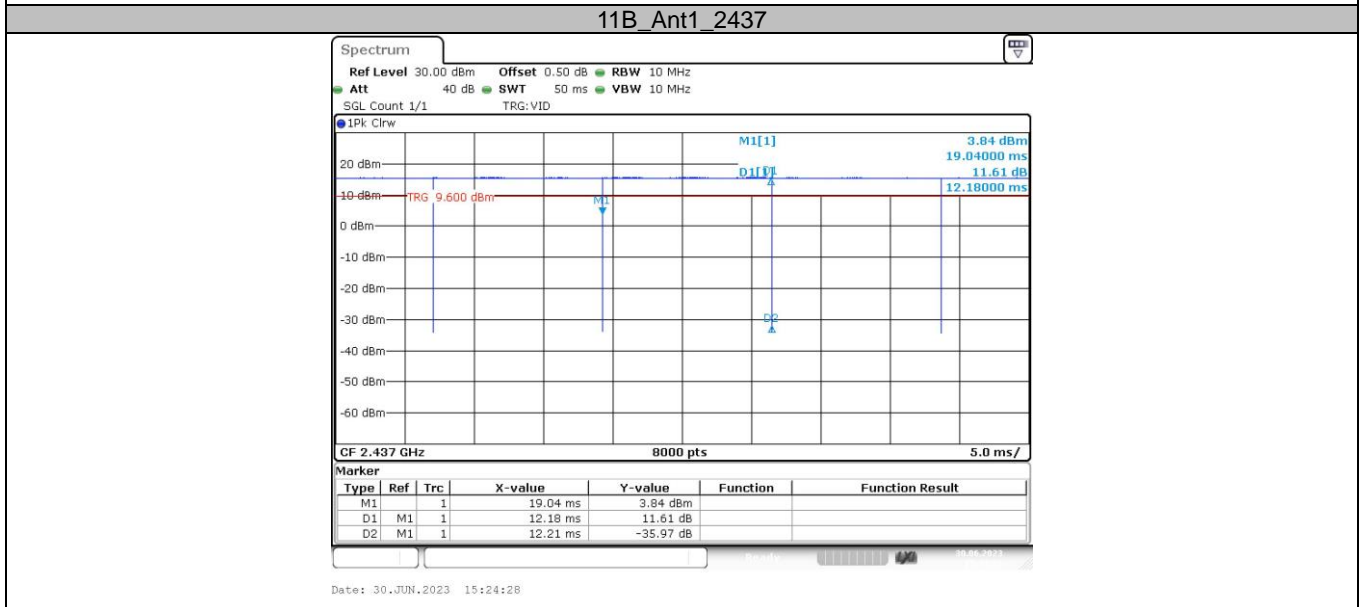
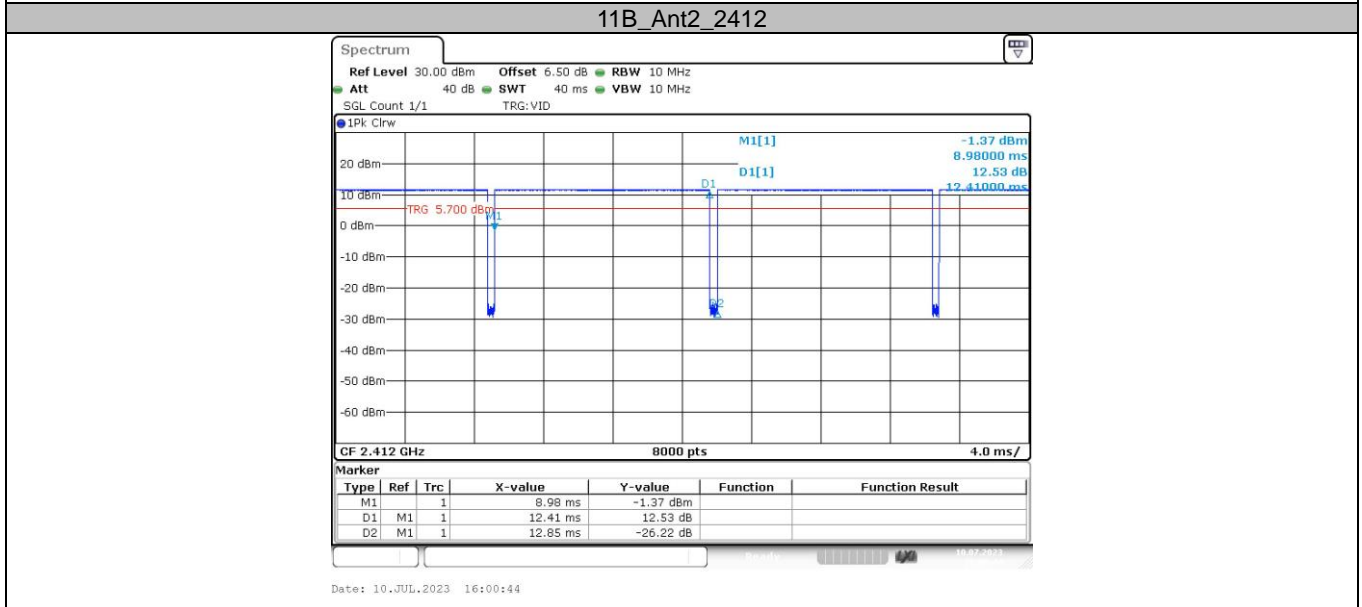
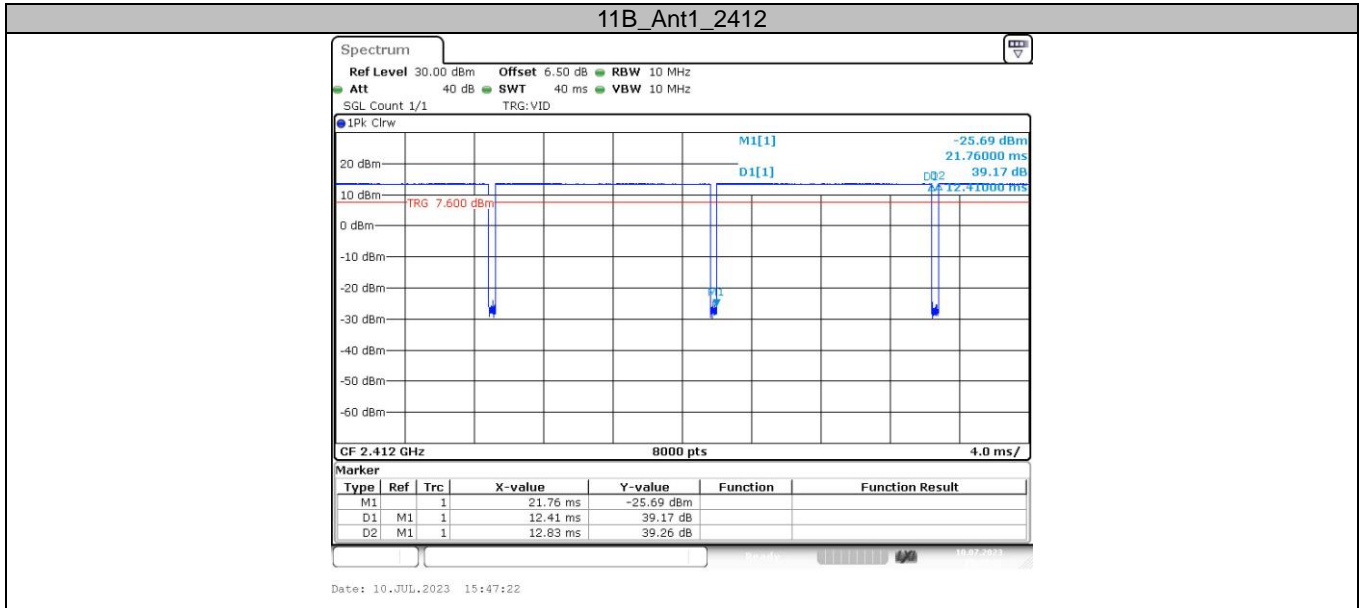
Please refer to the clause 2.4.

**Test Result**

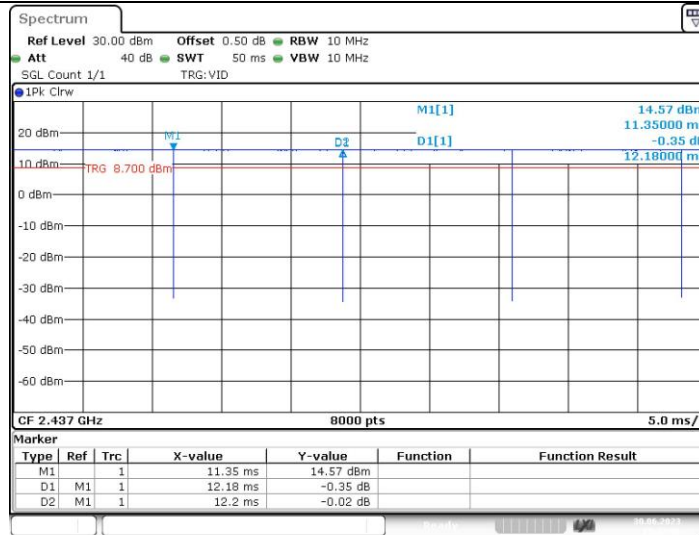
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T Minimum VBW (kHz)	Final Setting for VBW (kHz)
11B	Ant1	2412	12.41	12.83	96.73	0.08	1
	Ant2	2412	12.41	12.85	96.58	0.08	1
	Ant1	2437	12.18	12.21	99.75	0.08	1
	Ant2	2437	12.18	12.20	99.84	0.08	1
	Ant1	2462	12.40	12.78	97.03	0.08	1
	Ant2	2462	12.40	12.88	96.27	0.08	1
11G	Ant1	2412	2.06	2.25	91.56	0.49	1
	Ant2	2412	2.05	2.26	90.71	0.49	1
	Ant1	2437	2.01	2.04	98.53	0.50	1
	Ant2	2437	2.01	2.04	98.53	0.50	1
	Ant1	2462	2.05	2.23	91.93	0.49	1
	Ant2	2462	2.05	2.28	89.91	0.49	1
11N20MIMO	Ant1	2412	1.91	2.10	90.95	0.52	1
	Ant2	2412	1.91	2.11	90.52	0.52	1
	Ant1	2437	2.01	2.03	99.01	0.50	1
	Ant2	2437	2.01	2.04	98.53	0.50	1
	Ant1	2462	1.91	2.11	90.52	0.52	1
	Ant2	2462	1.91	2.11	90.52	0.52	1
11N40MIMO	Ant1	2422	0.93	1.16	80.17	1.08	2
	Ant2	2422	0.94	1.16	81.03	1.06	2
	Ant1	2437	0.92	0.95	96.84	1.09	2
	Ant2	2437	0.92	0.95	96.84	1.09	2
	Ant1	2452	0.94	1.16	81.03	1.06	2
	Ant2	2452	0.94	1.17	80.34	1.06	2



Test plot as follows:

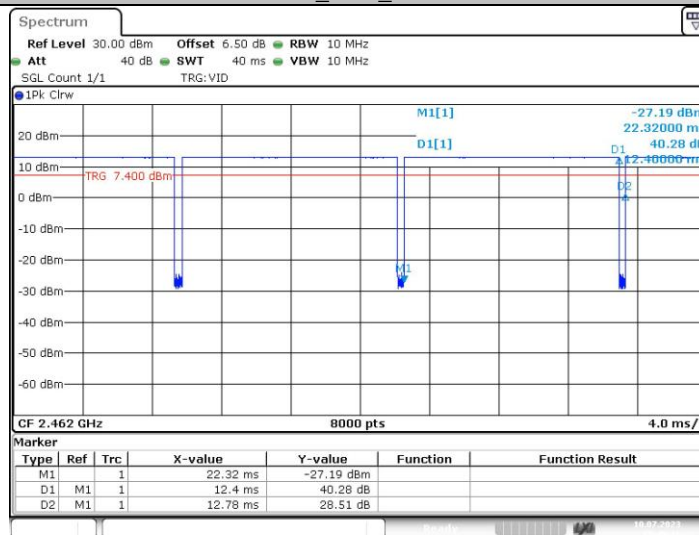


11B_Ant2_2437



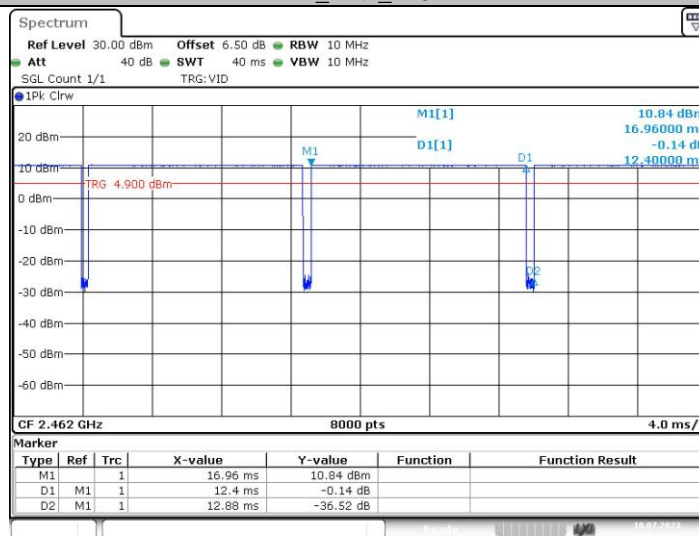
Date: 30.JUN.2023 15:37:08

11B_Ant1_2462



Date: 10.JUL.2023 15:49:18

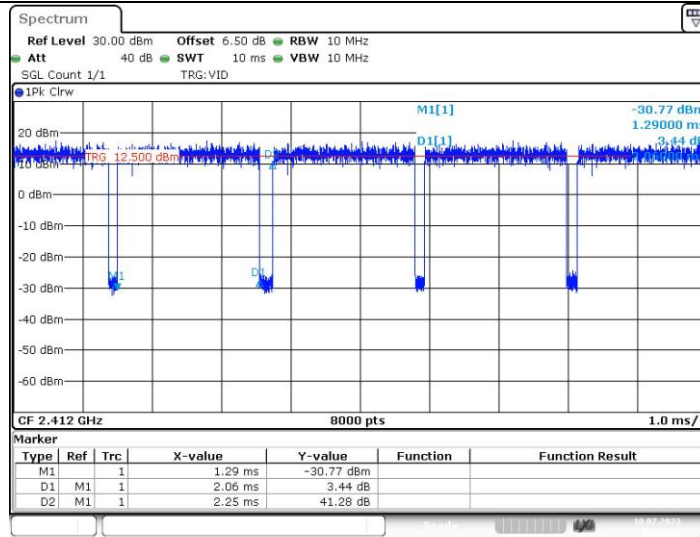
11B_Ant2_2462



Date: 10.JUL.2023 16:03:17

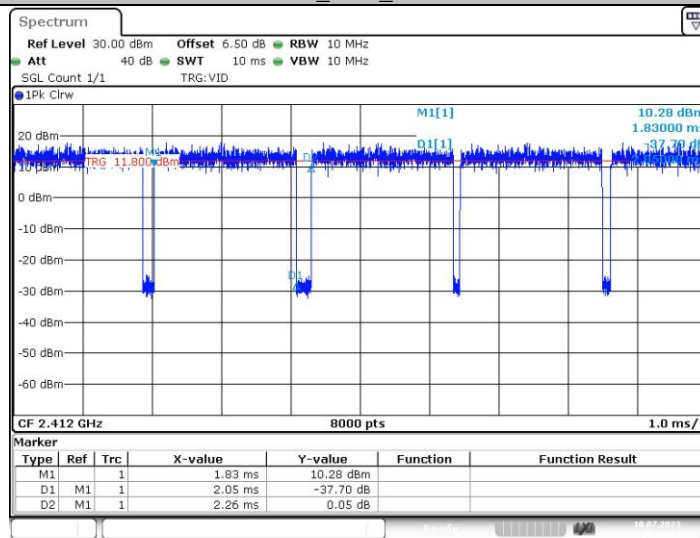
11G_Ant1_2412





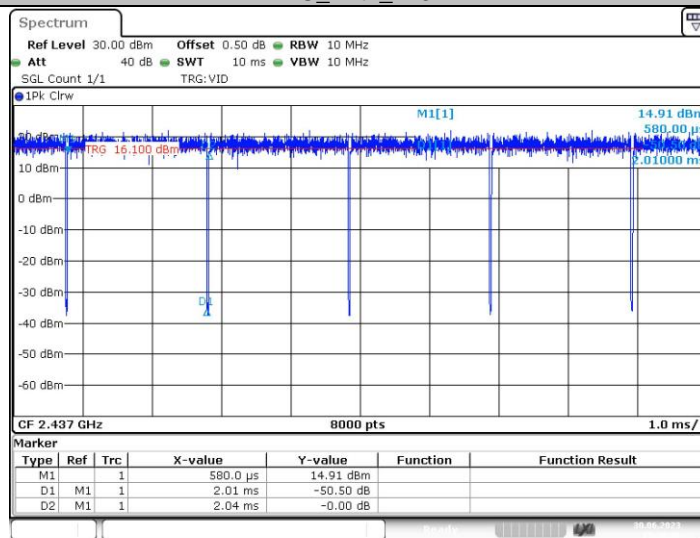
Date: 10.JUL.2023 15:51:57

11G_Ant2_2412



Date: 10.JUL.2023 16:06:22

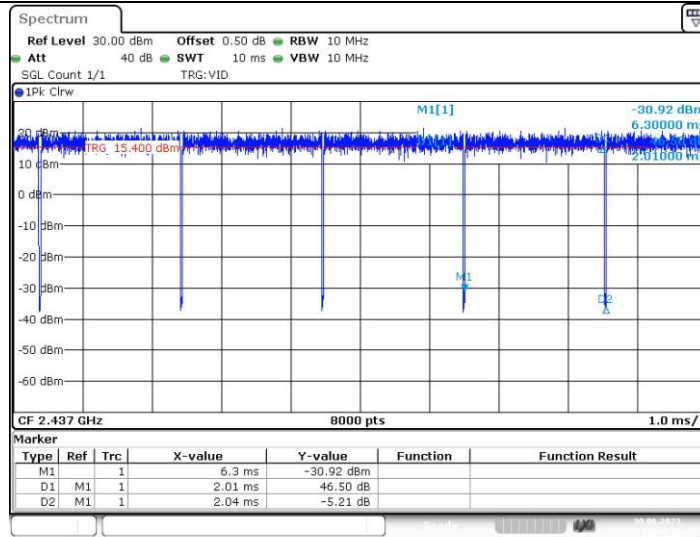
11G_Ant1_2437



Date: 30.JUN.2023 15:30:35

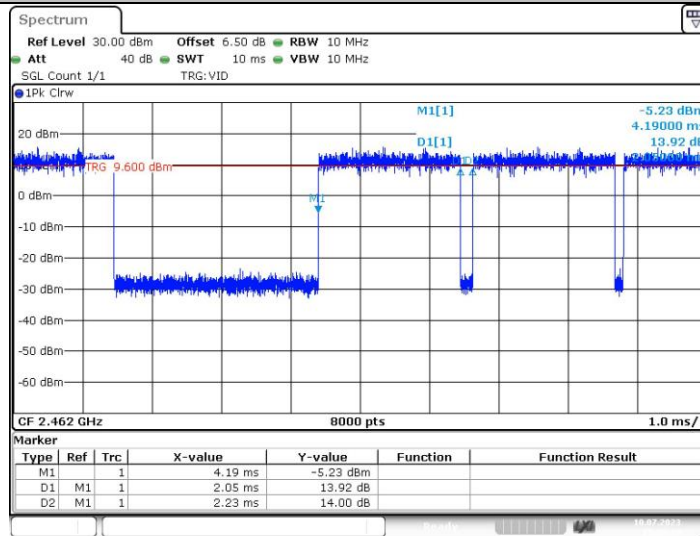
11G_Ant2_2437





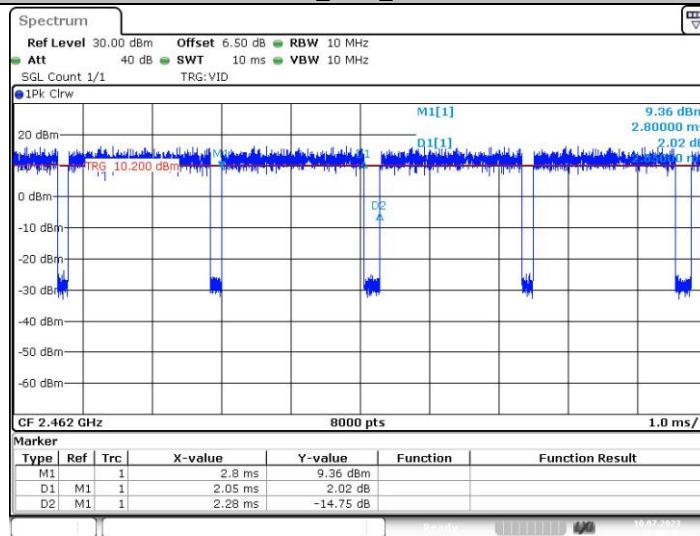
Date: 30 JUN.2023 15:43:17

11G_Ant1_2462



Date: 10 JUL.2023 15:56:13

11G_Ant2_2462



Date: 10 JUL.2023 16:08:37

11N20MIMO_Ant1_2412

